Desert Eagle™ Pistols
Mark XIX, Mark VII, Mark I

HONESTLY NOW . . . Have you read this OPERATOR'S MANUAL?

.357 Magnum
.41 Magnum
.44 Magnum
.50 Action Express
.440 Cor®Bon Magnum
Gas Operated Semi-Automatic Pistols

Manufactured by Israel Military Industries Ltd.
For Magnum Research, Inc.

OPERATOR'S MANUAL

CAUTION: To ensure safe operation and to prevent damage to your pistol, read entire operator's manual before operating pistol.

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Notes

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WARNING: AMMUNITION

SEMI-JACKETED BULLETS PROVIDE BEST FUNCTION AND RELIABILITY. DO NOT USE UNJACKETED LEAD BULLETS. FULL METAL JACKET BULLETS MAY BE USED IF THEY HAVE A FULLY ENCAPSULATED BASE (NO OPEN LEAD CORE BASE).

THE DEP PISTOLS ARE DESIGNED FOR: .357 MAGNUM AMMUNITION (158 GRAINS) /.41 MAGNUM AMMUNITION (210 GRAINS) /.44 MAGNUM AMMUNITION (240 GRAINS) /.50 ACTION EXPRESS AMMUNITION (300 GRAINS) /.440 COR®BON MAGNUM (240, 260 AND 305 GRAINS) IN ACCORDANCE WITH INDUSTRY STANDARDS (SAAMI STD); USE OF NON-STANDARD OR RELOADED AMMUNITION NULLIFIES THE FACTORY WARRANTY.

FOR MORE INFORMATION ABOUT OTHER COMMERCIAL LOADS WHICH WORK IN THE DESERT EAGLE PISTOL, WRITE TO MAGNUM RESEARCH, 7110 UNIVERSITY AVENUE NE, MINNEAPOLIS, MN 55432.

WARNING: RECOIL SPRING ASSEMBLY INSTALLATION

TO PREVENT DAMAGE TO YOUR PISTOL BE SURE, **BEFORE FIRING**, TO INSPECT THE RECOIL SPRING INSTALLATION FOR PROPER ARRANGEMENT (SEE PAGES 21 & 22 FOR DETAILS). FAILURE TO DO SO MAY RESULT IN A BROKEN PISTOL.

WARNING

ALL FIREARMS ARE DANGEROUS OBJECTS - PISTOLS INCLUDED.

ALWAYS CONSIDER THE PISTOL LOADED. TO RENDER IT SAFE, FIRST PLACE THE SAFETY IN THE "ON" POSITION, THEN REMOVE THE MAGAZINE, AND EJECT ANY REMAINING ROUND BY PULLING THE SLIDE TO THE REAR.

IT IS DANGEROUS TO ALTER OR MODIFY THIS FIREARM IN ANY WAY. ANY ALTERATIONS OR MODIFICATIONS OF THE FIRING MECHANISM MAY RESULT IN THIS FIREARM BECOMING UNSAFE AND NULLIFIES THE FACTORY WARRANTY.

USER IS ADVISED TO READ THE ENTIRE MANUAL PRIOR TO HANDLING THE PISTOL FOR THE FIRST TIME.

WARNING: LEAD EXPOSURE

DISCHARGING FIREARMS IN POORLY VENTILATED AREAS, CLEANING FIREARMS, OR HANDLING AMMUNITION MAY RESULT IN EXPOSURE TO LEAD AND OTHER SUBSTANCES KNOWN TO CAUSE BIRTH DEFECTS, REPRODUCTIVE HARM, AND OTHER SERIOUS PHYSICAL INJURY. HAVE ADEQUATE VENTILATION AT ALL TIMES. WASH HANDS THOROUGHLY AFTER EXPOSURE.

Desert Eagle
Gas Operated
Semi-Automatic Pistol

The Desert Eagle Pistol — U.S. Patent — 4,563,937
Magnum Research, Inc. 1986

Fig. 1

1. SAFETY PRECAUTIONS

- Make sure that the pistol is unloaded and on "SAFE" position before:
  — Receiving or handing over a pistol.
  — Transporting a pistol.
  — Cleaning or disassembling a pistol.

- Always remove the magazine immediately after firing and make sure that the chamber is empty.

- Ensure that the Safety is in the "SAFE" position (front end of the safety lever is down) when:
  — Inserting a magazine.
  — Chambering a round.
  — Transporting or moving the pistol.
  — The pistol is not in use.

- When handling the pistol:
  — Never point it at a person.
  — Always make sure that the barrel points in a safe direction.
  — Always assume that the pistol is loaded.

- Never load a pistol until you are ready to use it. Practice handling the pistol when empty, prior to attempting to fire (The DESERT EAGLE may be dry-fired without harm to the pistol's mechanism).

- Before firing the pistol:
  — Always wear eye and ear protection.
  — Always be sure of target backstop and what lies beyond it.

REMEMBER:
Always assume that the pistol is loaded. Looking into the barrel end (muzzle) is not recommended at any time.

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2. GENERAL INFORMATION

The .357, .41, .44, .50 AE and the .440 Cor®Bon DESERT EAGLE are gas-operated, semi-automatic pistols.

The DESERT EAGLE is unique in its class and represents a new functional approach in handguns. In addition to its high accuracy, it offers the convenience of firing standard rimmed .357, .41, .44, .440 Cor®Bon or .50 AE cartridges, which are widely available.

5 in 1 Disassembly Tool

1. Reamer Head - used to clean lead deposits from the gas cylinder. Remove barrel from pistol, place reamer head in cylinder and work back and forth to remove lead deposit.
2. Firing Pin Tool - used to push in the firing pin, to allow removal of firing pin stop, to allow removal of firing pin.
3. Bolt Guide Pin Tool - used to pull the bolt guide pin, from the bottom of the slide to remove bolt from slide. NOTE: Firing pin must be removed first.
4. Grip Pin Tool - used to push in grip pin, to allow removal of handgrips.
5. Magazine Disassembly Tool - used to push in the magazine base catch pin on the bottom of the magazine to allow removal of base and disassembly of magazine. (WARNING: Wear safety glasses when disassembling the magazine — the magazine spring is under tension and could cause serious eye injury if released suddenly.)

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3. GENERAL CHARACTERISTICS

- A safety catch, operable from either side, blocks the firing pin and at the same time disconnects the trigger from the firing mechanism.
- The pistol chamber is chrome plated to facilitate easier cartridge case extraction.
- The polygonal rifling reduces barrel wear and enhances the obduration between the bullet and the bore, thus increasing accuracy.
- Field stripping is simple since the pistol has only six main parts, including the magazine.
- The rotating bolt interlocks with the barrel during firing.
- The barrel assembly contains the gas operating system.
- Anatomically formed grip, ideal hand seating angle and comfortable grip dimensions permit rapid, accurate, instinctive shooting.
- The combat-type trigger guard is designed for two-handed shooting.
- Closed construction gives adequate protection against dirt.
- Most parts are manufactured by precision casting and machining to strict military standards and with the 'traditional Israel Military Industries' dedication to quality and durability.
- The pistol comes equipped with standard combat sights. In addition, the following sights may be used:
  — Fully adjustable rear sight with target-type front sight. (Optional)

Desert Eagle Pistol Specifications

	Mark VII .357 Magnum	Mark XIX .357 Magnum	Mark XIX .440 CorBon
Length, with 6-inch barrel	10.48 inches (266 mm)	10.75 inches (27.3 cm)	10.75 inches (27.3 cm)
Length, with 10-inch barrel	14.75 inches (375mm)	14.75 inches (37.5 cm)	14.75 inches (37.5 cm)
Height	6.1 inches (155 mm)	6.25 inches (15.9 cm)	6.25 inches (15.9 cm)
Width	1.25 inches (32 mm)	1.25 inches (32 mm)	1.25 inches (32 mm)
Trigger reach	2.75 inches (70 mm)	2.75 inches (70 mm)	2.75 inches (70 mm)
Sight radius (with 6-inch barrel)	8.5 inches (215 mm)	8.5 inches (215 mm)	8.5 inches (215 mm)
Weight w/empty magazine (6–inch)	1783.19 grams (3 lbs. 14.9 oz.)	1990.14 grams (4lbs. 6.2 oz.)	1990.14 grams (4lbs. 6.2 oz.)
Polygonal rifling (right-hand twist)	1 turn in 14 inches	1 turn in 14 inches (355mm)	1 turn in 19 inches (48.3 cm)
Magazine capacity	9 rounds	9 rounds	7 rounds
Bore diameter	.357" (9.1 mm)	.357" (9.1 mm)	.429" (10.9 mm)

	Mark VII .44 Magnum	Mark XIX .44 Magnum	Mark XIX .50 AE
Length, with 6-inch barrel	10.48 inches (266 mm)	10.75 inches (27.3 cm)	10.75 inches (27.3 cm)
Length, with 10-inch barrel	14.75 inches (375 mm)	14.75 inches (37.5 cm)	14.75 inches (37.5 cm)
Height	6.1 inches (155 mm)	6.25 inches (15.9 cm)	6.25 inches (159 mm)
Width	1.25 inches (32 mm)	1.25 inches (32 mm)	1.25 inches (32 mm)
Trigger reach	2.75 inches (70 mm)	2.75 inches (70 mm)	2.75 inches (70 mm)
Sight radius (with 6-inch barrel)	8.5 inches (215 mm)	8.5 inches (215 mm)	8.5 inches (215 mm)
Weight w/ empty magazine (6-inch)	1899.42 grams (4lbs. 3oz.)	1990.14 grams (4 lbs. 6.2 oz.)	1990.14 grams (4 lbs. 6.2 oz.)
Polygonal rifling (right-hand twist)	1 turn in 18 inches (457 mm)	1 turn in 18 inches (457 mm)	1 turn in 19 inches (48.3 cm)
Magazine capacity	8 rounds	8 rounds	7 rounds
Bore diameter	.429" (10.9 mm)	.429" (10.9 mm)	.495" (12.6 mm)

Technical data may not be exact due to production/model/specification changes.

Mechanical Features

Rifling Type:	R.H. 6-Rib polygon barrel
Method of operation	Gas
Method of locking	Rotating Bolt

Sights

Combat sights	Sight line radius, 215mm (8.5") (6-inch barrel)

5. OPERATING PRINCIPLES

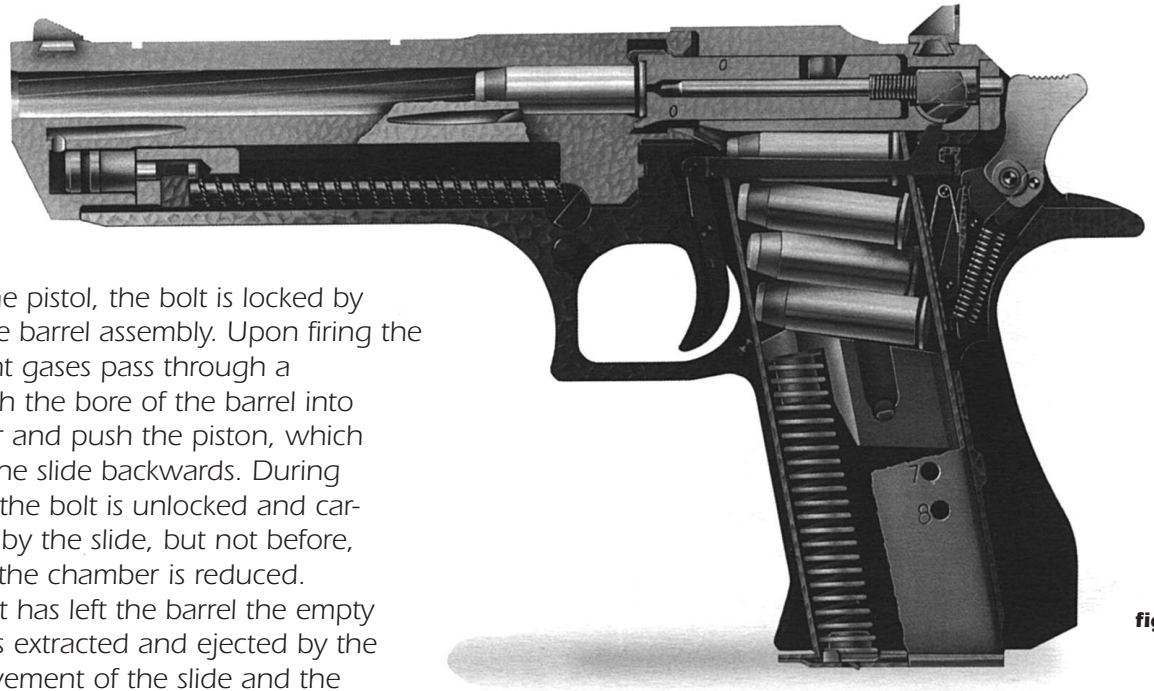

fig. 2

.357/.41/.44 Magnum
.50 Action Express
.440 Cor®Bon

The Desert Eagle Pistol—U.S. Patent—4,563,937
Magnum Research, Inc. 1986

Prior to firing the pistol, the bolt is locked by three lugs in the barrel assembly. Upon firing the pistol, propellant gases pass through a hole underneath the bore of the barrel into the gas cylinder and push the piston, which in turn moves the slide backwards. During this movement the bolt is unlocked and carried to the rear by the slide, but not before, the pressure in the chamber is reduced. When the bullet has left the barrel the empty cartridge case is extracted and ejected by the continuing movement of the slide and the bolt to the rear. At the same time, the slide pushes the hammer downward into the cocked position, where it is retained by the sear. The recoil springs are compressed.

Desert Eagle
.357/.41/.44 Magnum
.50 Action Express
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fig. 2a

Forward Movement

When the recoil springs expand, they drive the slide and bolt forward. During this movement the bolt cannot rotate due to the stabilizer pin which retains it. When the bolt scoops another round from the magazine and inserts it into the chamber, the locking lugs on the bolt come into contact with the recesses in the barrel and the bolt is rotated thus locking the cartridge in the chamber. Now the trigger bar is opposite the recess in the safety and can move upward, thus engaging the sear. When pulling the trigger, the sear releases the hammer which in turn hits the firing pin thus firing the chambered cartridge. (fig. 3)

When the last cartridge is fired and the empty case is ejected, the slide is retained in its rear position by the slide catch. The slide catch is actuated by the magazine follower. The catch releases the slide when depressed by hand or when the slide is pulled slightly to the rear.

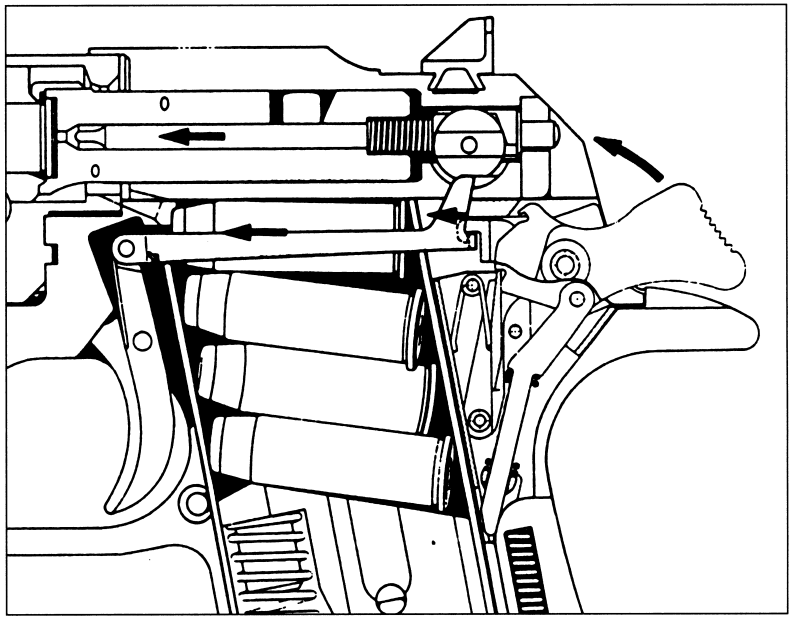

fig. 3

Safety Features

The safety catch levers are located at the rear of the slide, just below the rear sight. They are accessible from either side of the pistol. When pushing the front end of the safety catch lever downward, the safety catch is engaged. In this position the firing pin movement is closed by the safety catch and the trigger bar, which is pushed down, cannot engage the sear, thus neutralizing the trigger (fig. 4).

It should be noted that due to the above features, it is not possible to engage the sear when the bolt is not locking properly. Due to the unique blocking of the firing pin by the safety, the pistol will not fire when dropped accidentally on its hammer or on its muzzle when the safety is properly engaged (on "SAFE").

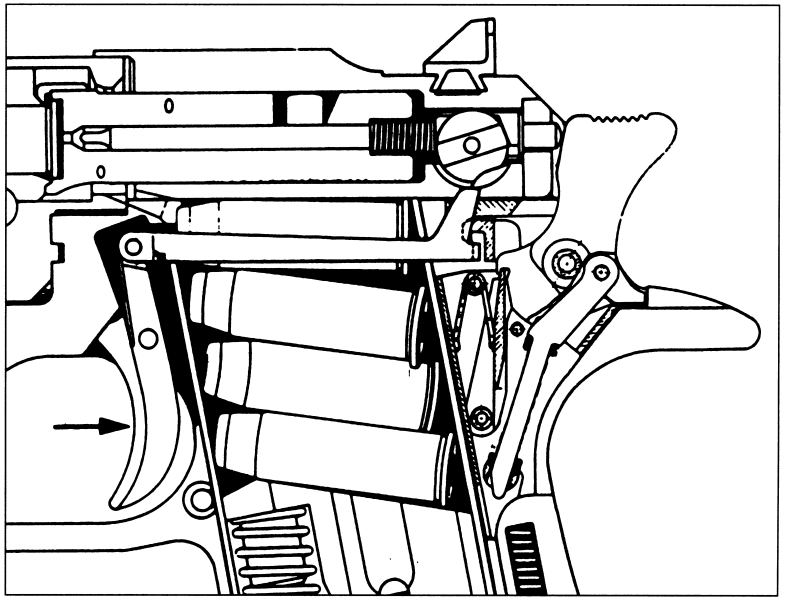

fig. 4

6. OPERATING INSTRUCTIONS

Safety Checks

1. Pull hammer slightly to the rear until a click is heard; the hammer is now in semi-cocked position.
2. Move the front end of the safety catch lever down into the "SAFE" position.
3. Press the magazine catch pin on the left hand side of the pistol and remove the magazine (fig. 5).
4. Draw the slide to the rear, check the chamber visually to ensure that the pistol is unloaded and release the slide.
5. Point the pistol in safe direction and pull the trigger to check whether the safety is working properly (the hammer should not move).
6. Move the safety lever up into the "FIRE" position; a red dot will be visible.
7. Pull hammer back slightly and pull the trigger to release the hammer.

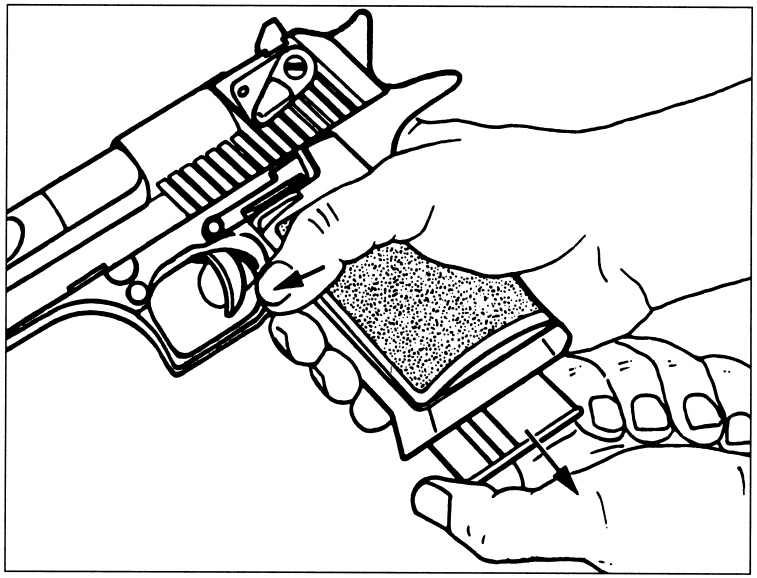

fig. 5

8. Pull the hammer into semi-cocked position and move the safety catch lever into the "SAFE" position.

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Filling and Emptying the Magazine

Filling

1. With the magazine in an upright position, place the cartridge rim on the magazine follower, in front of the magazine lips (fig. 6).
2. Press the cartridge down and under the magazine lips to the rear.
3. Repeat until loaded (9 cartridges .357; 8 cartridges .41/.44; 7 cartridges .440/.50AE).

Note: Number of cartridges in the magazine can be verified by the indicator holes in the side of the magazine.

Emptying:

1. Push the cartridge forward with the thumb.
2. Repeat until the magazine is empty.

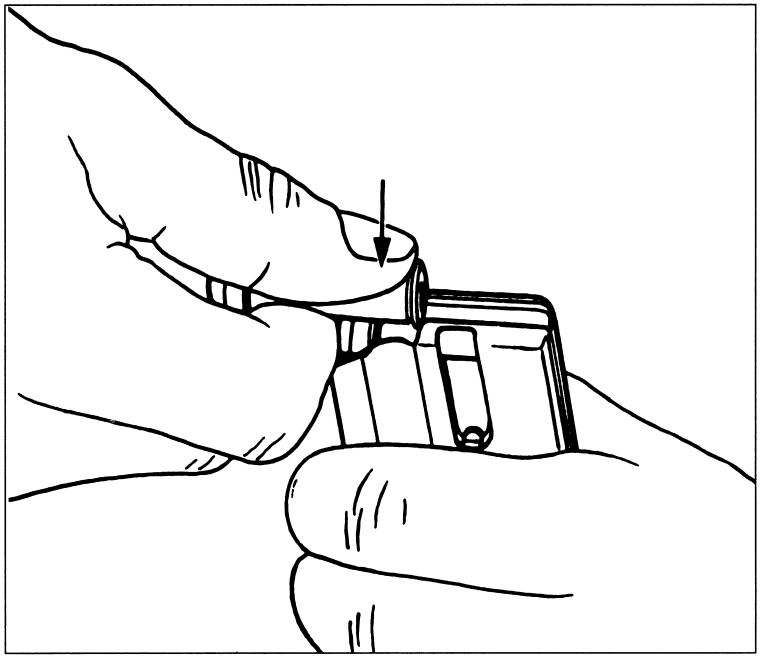

fig. 6

7. SIGHTS AND ZEROING

Combat sights (Standards)

The standard sights consist of a rear sight and a front sight. Both are combat type. They are designed to ensure rapid and accurate aiming. The square notch on the rear sight is 3 mm wide. The sight line radius is 210 mm.

Adjustable sights

The existing dovetail slots are designed to accommodate front target type sights and rear adjustable sights, available as an accessory option.

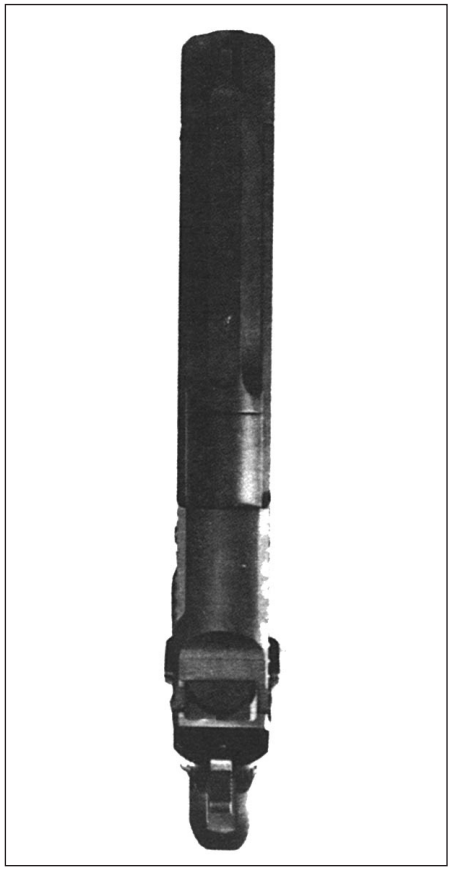

fig. 7
(Mark I pictured)

Telescopic sight (Mark XIX,.357, .44, .440 & .50)

The 7/8" rib has cross-slots to allow installation of Weaver™ style rings.

Telescopic sight (Mark I, VII, .357, .41, .44)

The existing 3/8" dovetail rib on the barrel is designed to accommodate a telescopic sight mount which is available as an option (#DEP350B).

Zeroing

The DESERT EAGLE is factory zeroed at 100 meters. Due to individual eyesight variations, the actual mean point of impact (m.p.i.) may vary; therefore the pistol should be zeroed by its owner.

Windage

Adjust by shifting the rear sight (or the front sight) left or right as required.

8. LOADING AND FIRING

Pre-loading and Pre-firing checks:

1. Perform safety checks (see page13) to ensure that the pistol is not loaded.
2. Make sure the barrel is clean and free of obstruction.
3. Check that the magazines are clean and properly loaded.
4. Always wear ear and eye protection when firing the pistol.

Cocking the pistol:

1. Never chamber a round unless you are ready to fire.
2. Insert the magazine. The magazine will have about 1/16 inch play when seated properly. Do not push up on magazine when firing or jamming will occur.
3. Grasp the slide, pull it all the way back and release it (fig. 8). This operation cocks the hammer and chambers a cartridge.

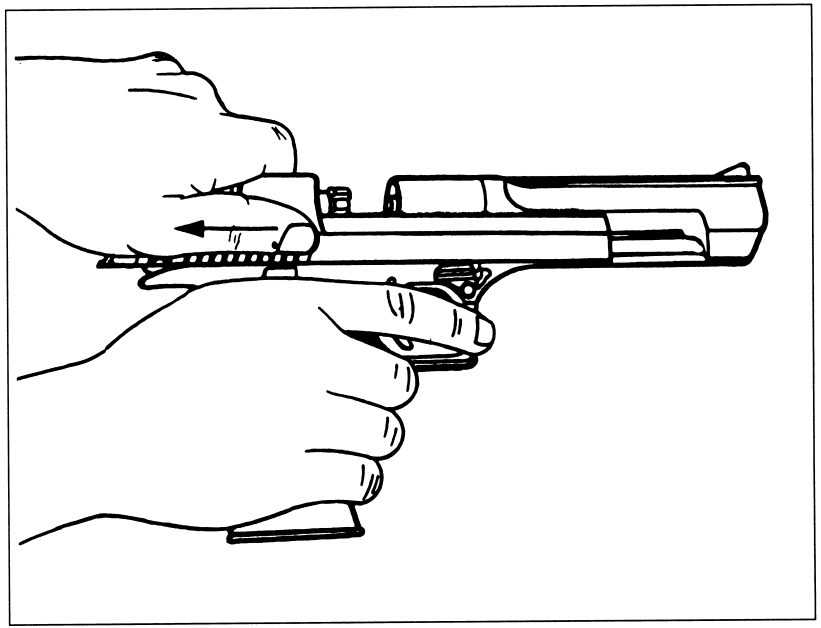

fig. 8

WARNING:
This pistol is now loaded, cocked with the safety catch lever in the "SAFE" position; therefore, make sure that the barrel is pointed in a safe direction.

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Firing the pistol:
With the pistol pointed at the target, move the safety catch lever up to "FIRE" position (red dot will be visible) (fig. 9) and pull the trigger.

Reloading during firing:
The slide remains in the rearward position when the magazine is empty.

1. Move safety catch lever to down "SAFE" position.
2. Remove the empty magazine.
3. Insert a full magazine.
4. Release the slide by depressing the slide catch or by pulling the slide slightly to the rear and releasing it (fig. 10).
5. Move safety catch to "FIRE" position.

NOTE:
The pistol is now loaded and cocked with the safety catch lever in the "FIRE" position.

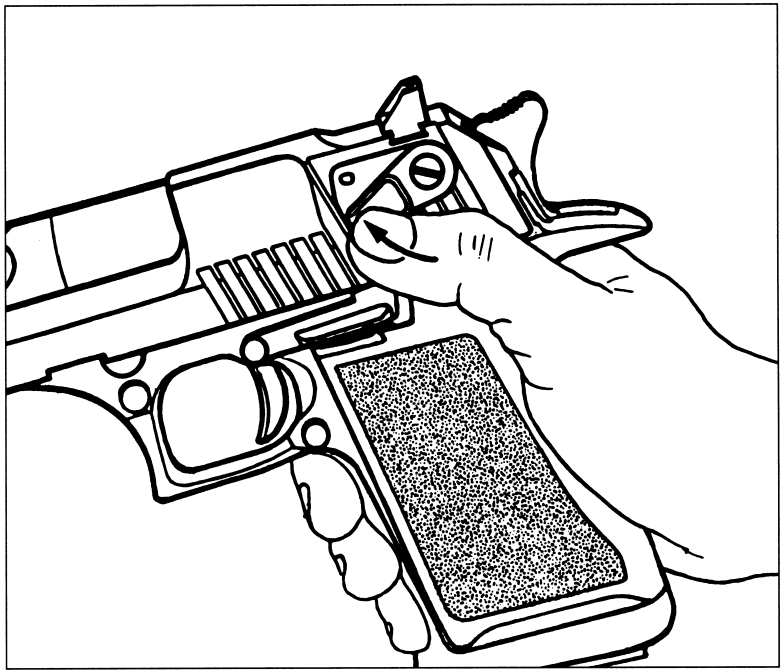

fig. 9 (Mark I pictured)

Push safety catch up to fire position.

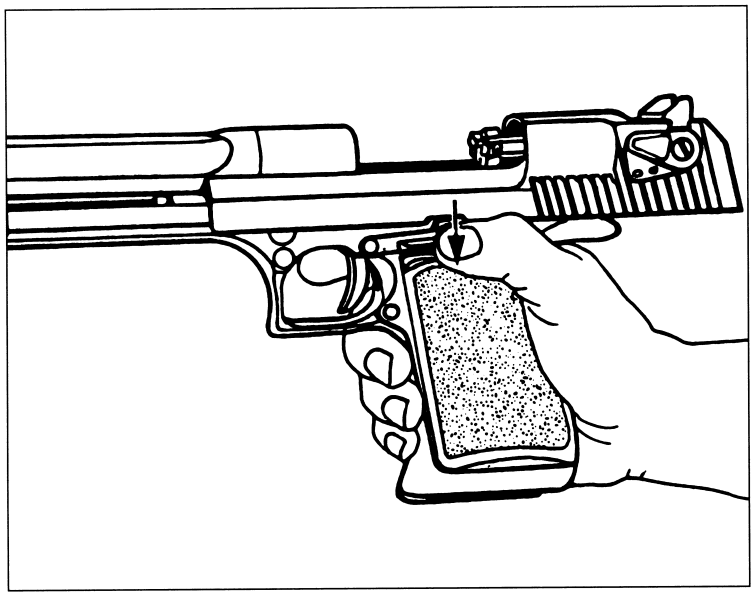

fig. 10

If slide is difficult to release in this manner, proceed as follows: hold pistol with both hands, place left thumb on slide catch, place right thumb on top of left thumb, then push straight down.

Unloading the pistol

1. *Place the safety catch lever in the "SAFE" position.*
2. *Press the magazine catch pin and remove the magazine.*
3. *Pull the slide to the rear and eject the chambered cartridge. Check visually that the chamber is empty.*
4. *Place the safety catch lever in the "FIRE" position, point the pistol in a safe direction and lower the hammer with your thumb while pulling the trigger.*
5. *Pull the hammer back into its semi-cocked position and place the safety catch lever in the "SAFE" position.*
6. *Empty the magazine (see page 14).*

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9. DISASSEMBLY AND ASSEMBLY

General

This chapter deals with those disassembling operations and assembling operations which the user should carry out for routine maintenance of the pistol.

Disassembling or assembling of any other parts is not recommended and will void all warranties.

WARNING: SAFETY CYLINDER
IT IS POSSIBLE TO ASSEMBLE THE SAFETY CYLINDER IN A BACKWARD/REVERSE ORDER. IF THIS HAPPENS, THE SAFETY AND FIRE FUNCTION INDICATORS WILL ALSO BE REVERSED. THE GUN WILL THEN FIRE WHEN ON SAFE. DO NOT DISASSEMBLE THE SAFETY. FOR SERVICE ON SAFETY CONTACT MAGNUM RESEARCH, INC. CUSTOMER SERVICE.

Disassembly should be carried out on a clean surface and the disassembled parts should be placed in order of their removal.

FIELD STRIPPING

Carry out the following operations before disassembling:

1. Remove the magazine (fig. 5) and engage safety "ON".
2. Pull the slide back and check the chamber visually to make sure it is empty.
3. Place the safety catch lever in the "FIRE" position, point the pistol in a safe direction and lower the hammer with your trigger thumb while pulling the trigger.

Disassembly

1. Pull the hammer slightly to the rear until a click is heard; the hammer is now in semi-cocked position.
2. Move the front end of the safety catch lever down into its "SAFE" position.
3. Press the barrel lock pin in on the left side of the pistol and at the same time swing the barrel lock on the other side of the pistol counter clockwise (fig. 11).
4. Pull the barrel slightly forward to release it and lift it out.
5. Draw the slide forward and remove it (fig. 12). This allows the recoil springs assembly to be pulled forward and easily removed (.357). On .41, .44, .440 and .50 the recoil spring comes out with slide assembly.

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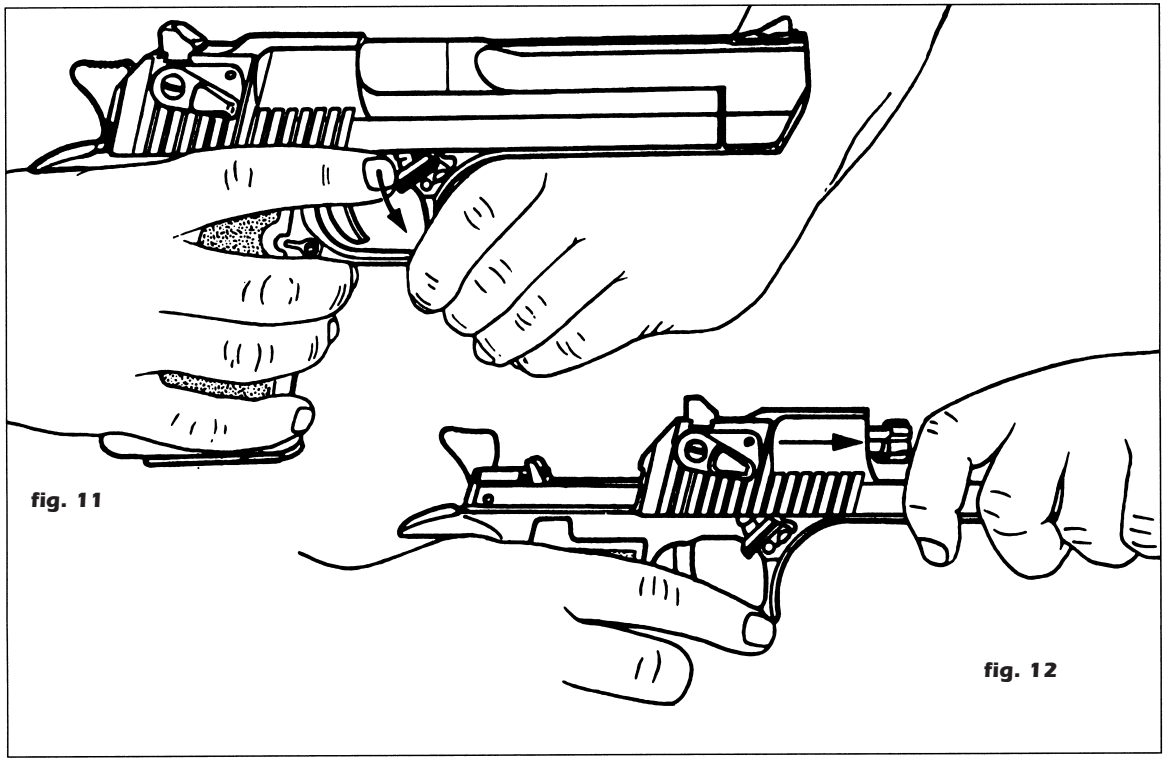

fig. 11

fig. 12

ASSEMBLY (.357, .41, .44, .440 & .50)

1. Turn the slide upside down and place it on a level surface.
2. Insert the piston into place (fig. 14). Make sure the piston shaft recess is facing the slide recess. The other piston shaft recess will face up.
3. Engage piston shaft with recoil spring plate lug and the slide.
4. Use your thumb to push the base of the spring plate assembly against the slide, supporting the slide all the way to align the spring assembly in parallel with the slide.
5. Keeping the spring assembly parallel to the slide, draw the frame all the way into the slide (do not compress the spring).
6. Stand the pistol upright and verify that the spring ends are correctly positioned in place (2 holes) within the frame (above the trigger).

WARNING: Make sure that the gas piston is in place and cannot be pulled out.

7. Insert barrel lock lug into frame recess through the slide.
8. Push against the barrel from the muzzle end and hold the barrel assembly against the frame (fig. 15). Now swing the barrel lock clockwise into closed position.
9. Check correct pistol operation by cocking and releasing the hammer and verify that the safety is functioning properly and safely.

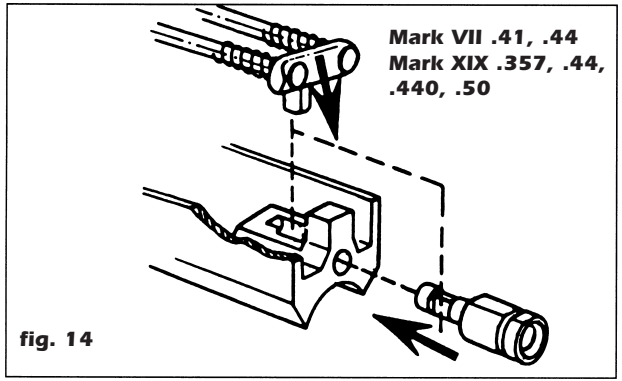

fig. 14

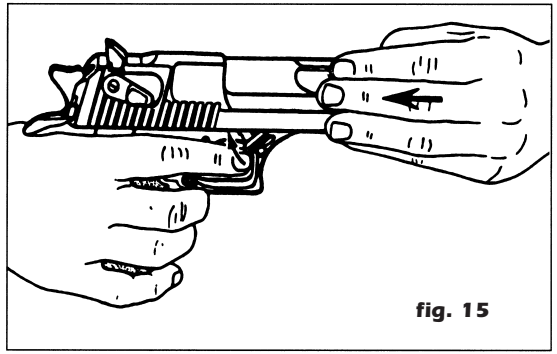
fig. 15

ASSEMBLY (.357 Magnum Mark I & VII)

1. Insert recoil spring assembly into frame from its front end, open end first **with the sharp corner of the spring plate down (rounded forward edge of spring plate up)** (fig. 15a). Now push the recoil spring assembly fully home into its recesses in the frame. It is important to have the spring plate in the proper position.

2. Mount the slide onto the frame and draw it to the rear.

3. Hold the slide back against slight spring tension and place the barrel lock lug in the slide recess.

4. Push against the barrel from the muzzle end and hold the barrel assembly against the frame. Now swing the barrel lock clockwise into its closed position.

5. Insert the magazine.

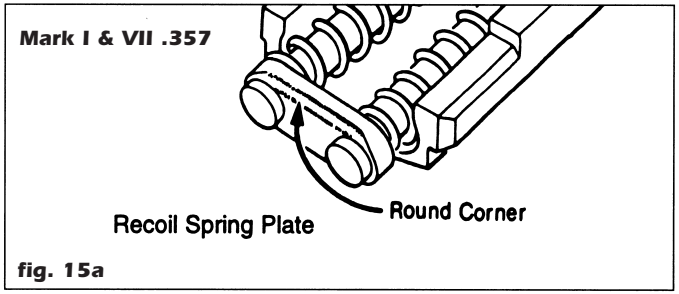

fig. 15a

Additional Disassembly and Cleaning Instructions for the Return/Recoil Springs Assembly

NOTE: Because of the spring tension, be sure to wear safety glasses to prevent possible eye injury. Always work in a clean area to prevent loss of small parts.

1. Disassemble and clean one side at a time.
2. Place the return springs on end with the crossplate down.
3. Pull down on one return/recoil spring and hold down.
4. Pry C-clip from end of spring rod (C-clip is under tension and will "fly" off if not held under control while moving).
5. Slowly release tension on return/recoil spring and remove. Remove spring rod from crossplate.
6. Clean rod and crossplate of carbon/lead buildup with steel wire brush or steel wool. Soak return/recoil springs in bore solvent and brush with bronze phosphor brush to remove carbon buildup. Spray with cleaner/degreaser and lubricate.
7. Reassemble by reversing disassembly instructions.

ADDITIONAL ASSEMBLY

Disassembly of the magazine

1. Before disassembly, remove all cartridges from the magazine.
2. Hold magazine with base facing upward.
3. With the combination tool, push base catch inward.
4. With catch depressed, slide magazine base carefully forward.
5. Keep thumb pressed on magazine base and lift it up slowly to release the magazine spring pressure and remove the magazine base.
6. Remove magazine base catch and spring.
7. Press follower plunger in with the combination tool and push the follower from the magazine with the cleaning rod.

WARNING:
The magazine spring is under pressure and may be released accidentally, causing injury if not held in place during disassembly or assembly. Do not point magazine base toward face or other person. Base catch is not attached to spring.

Assembly of the magazine

1. Hold magazine with lips downward and partly insert the follower with its flat face downward.
2. Press the follower plunger in with combination tool and slide follower into magazine all the way.
3. Insert magazine spring.
4. Place base catch on spring with small tip pointing up.
5. Push magazine base to rear until the base catch engages the base.

Disassembly of the slide

1. Make sure the safety catch lever is in the "FIRE" position.
2. Push the rear end of the firing pin in with the combination tool and slide the firing pin stop down (fig. 16). The firing pin is now free to be pushed out by its spring.
3. Remove the firing pin and its spring.
4. Hold the slide upside down and push back with your thumb. Now remove the bolt guide pin with the combination tool (fig. 17).
5. Release the bolt slowly and remove the bolt assembly, bolt stabilizer pin, spring and pin.

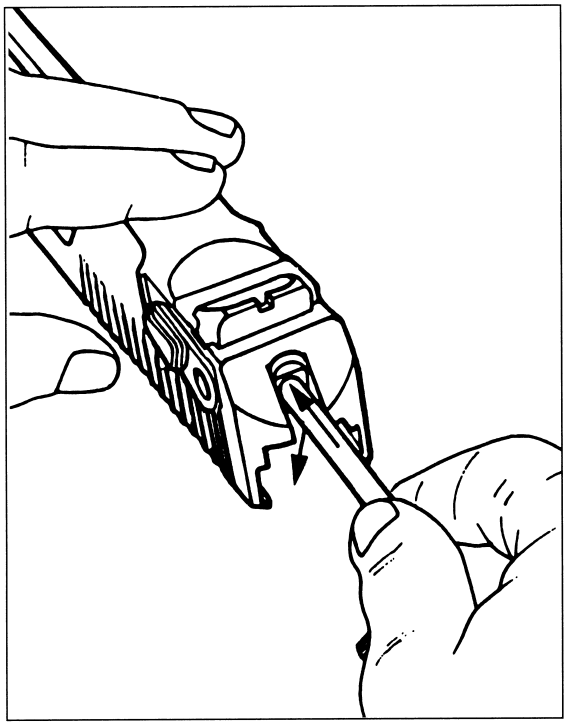

fig. 16

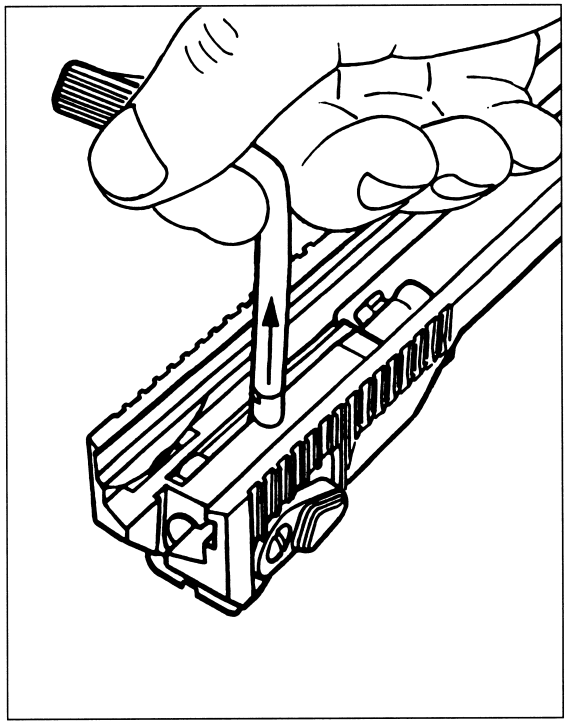

fig. 17

Assembly of the slide

1. Insert the bolt stabilizer - guide pin first. Make sure that its concave part coincides with the bolt housing in the side.
2. Insert the bolt into its housing in the slide and compress the stabilizer spring with it.
3. Insert the bolt guide pin. (fig. 18).
4. Make sure the safety catch is in the "FIRE" position.
5. Install the firing pin spring and the firing pin, with its "narrow" section facing down (fig. 19).
6. Insert the firing pin stop (semicircle part up.) Push the firing pin in with the combination tool and slide the stop further in until the firing pin engages the hole in the stop.

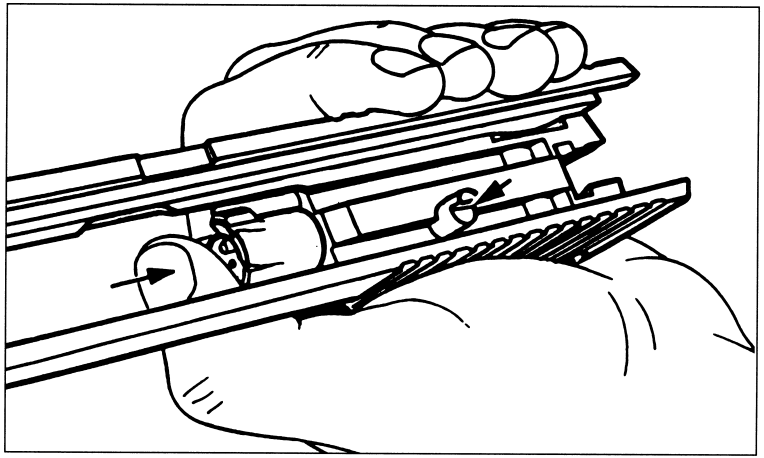

fig. 18

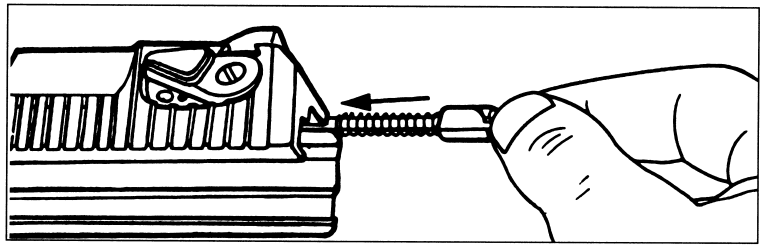

fig. 19

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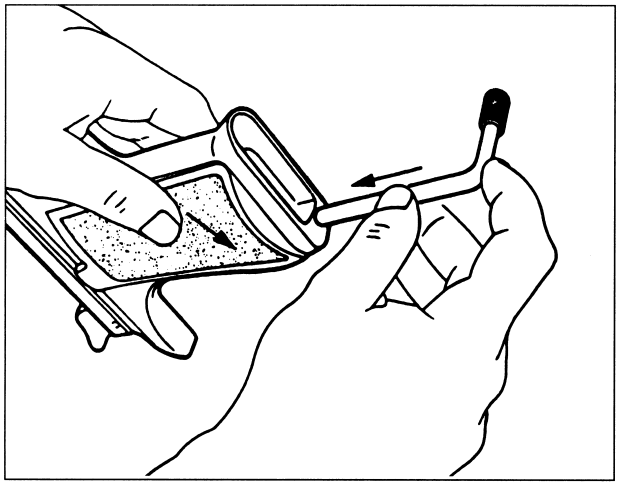

fig. 20 Mark I/VII/XIX

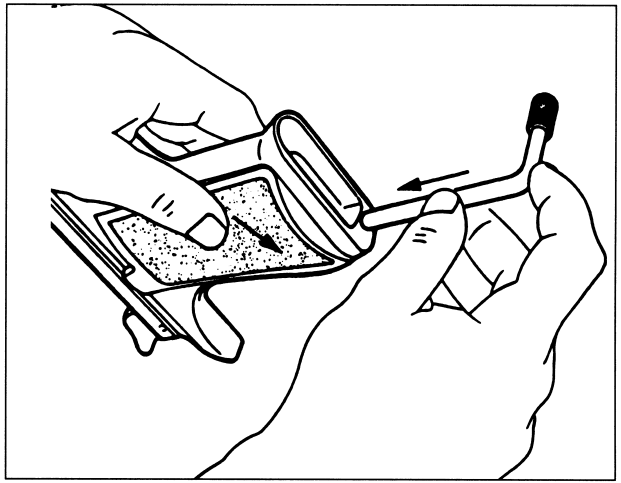

fig. 21 Mark I/VII/XIX

Disassembly of the trigger mechanism assembly

1. Lean the frame on the hammer and horn. Push the grip pin in with the combination tool through the small hole in the bottom of the grip and push the grip cover downward to release it (fig. 20).
2. With both thumbs on the projection at the top of the butt, pull the front edges of the grip backward to remove it from the butt (fig. 21).
3. Remove the hammer pin and the sear pin with the appropriate punch (fig. 22).
4. Lift the trigger mechanism assembly from the frame.

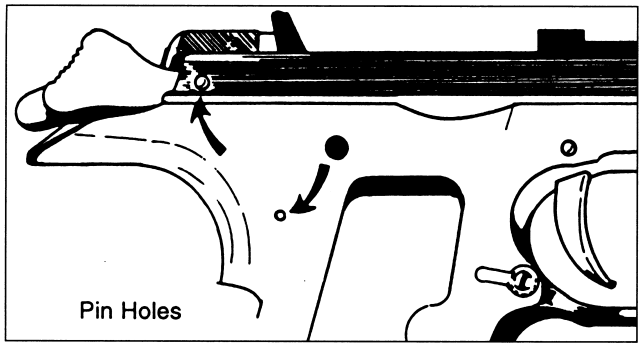

fig. 22

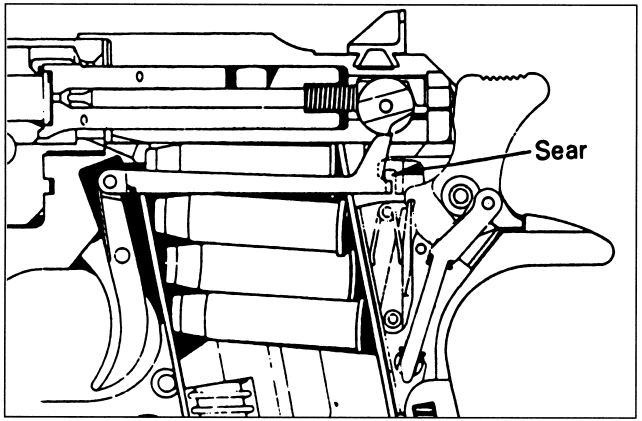

fig. 23

Assembly of the hammer / sear mechanism

1. Hook the sear onto the trigger bar and press the hammer mechanism assembly down; make sure that the pointed bottom ends of the hammer mechanism assembly engage the rear of the frame.
2. Insert the hammer pin and the sear pin into their respective holes.
3. Replace the grip partly over the butt and then squeeze the grip home with your hand.

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ADJUSTABLE TRIGGER MECHANISM (ATM)

Standard on Mark VII & Mark XIX

It enables adjustment of trigger travel to achieve higher accuracy and greater comfort when firing the pistol.

Characteristics

1. Trigger travel consists of two stages. In the first stage of travel, trigger force is low. In the second stage, pull force increases until the hammer is released. The location of the transition between stages may be adjusted to be at any point within the trigger travel, by trigger travel adjustment.
2. The ATM may be mounted in any DESERT EAGLE pistol frame, is standard on Mark VII and Mark XIX.

Adjustment (fig. 24)

1. The ATM is adjusted after the DESERT EAGLE has been field stripped (see page 19).

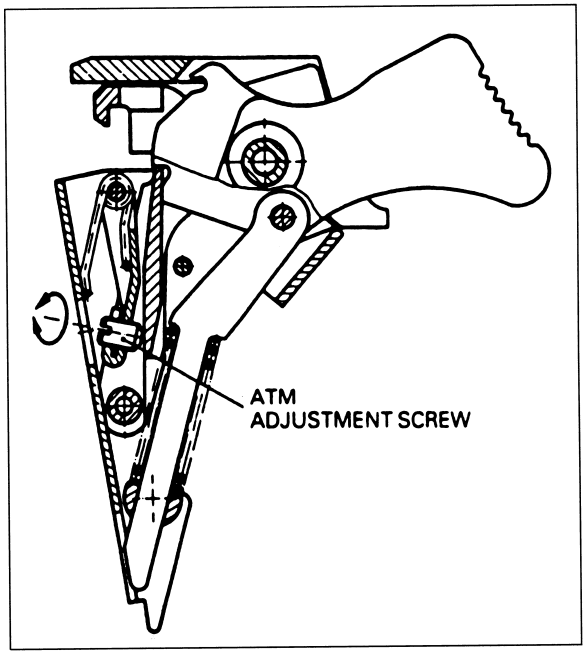

fig. 24

2. The ATM setting may be tested by cocking the hammer manually and squeezing the trigger.
3. Trigger travel adjustment: Insert a screwdriver through the magazine housing opening to turn the ATM adjustment.

10. CARE AND CLEANING

General

Comprehensive knowledge of how to service and handle the pistol is of great importance. **Experience has shown that most failures which occur while operating the pistol are due to negligence in maintenance.** Special attention must be paid to cleaning, lubricating and inspecting the pistol; this will determine whether or not the pistol will function properly when you need it. In order to maintain accuracy, the barrel must be serviced thoroughly. The slide, the bolt and other moving parts of the pistol must be kept clean and lightly lubricated to ensure proper operation. Care and cleaning includes the magazines, which must be kept free from rust, grit, etc. in order to function properly.

Initial Cleaning

1. Upon receipt of the pistol, disassemble (see page19) and inspect it.
2. Clean pistol as per periodic maintenance procedure.
3. Any heavy or sticky deposits of protective material may be removed, using very light rust-preventive oil. After cleaning, wipe dry and coat lightly with gun oil.
4. Never use abrasive or metallic objects, synthetic cloth, dry cleaning fluids, detergents, acids, lye, water or steam for cleaning.
5. Reassemble pistol (see page 19) and make sure it is functioning properly.

Periodic Maintenance

1. Field strip the pistol (see page 19)
2. Clean all stripped parts with a lightly oiled soft cloth.
3. Attach the patch holder to the cleaning rod; slip a dry patch into the patch holder and clean the bore.
4. Clean the bore and chamber of the barrel with an oiled patch slipped through the patch holder.
5. Clean the gas cylinder.
6. While cleaning, inspect all parts for wear and damage; make sure the bore and chamber are free from rust.
7. Assemble the pistol (see page 19) and make sure it functions properly.

Cleaning prior to firing

1. Field strip the pistol (see page 19).
2. Using the cleaning rod and patch holder, dry the chamber and bore with a clean patch.
3. Make sure that all moving parts are lightly oiled.
4. Assemble the pistol (see page 19) and make sure it functions properly.

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Cleaning and firing

1. Field strip the pistol (see page 19).
2. Disassemble the slide (see page 24).
3. Attach the brass wire brush to the cleaning rod, run the brush completely through the chamber and bore until it protrudes completely from the other end. Now pull the wire brush in the opposite direction and remove it from the barrel. Repeat this operation several times.
4. Wipe the cleaning rod dry, remove the wire brush and attach the patch holder.
5. Attach a clean patch and clean the bore; repeat this operation using clean patches until the bore is clean.
6. Oil chamber and bore with a clean oiled patch.
7. Clean the gas cylinder.
8. Oil lightly all other parts of the pistol, reassemble it (see page 19) and make sure it functions properly.

NOTE: After firing, use the gas cylinder cleaning tool to remove deposits from gas cylinder underneath the barrel assembly.
The cleaning tool should rotate freely from side to side in the gas cylinder when clean. DO NOT use any other tool for this operation since this may damage the cylinder. Make sure gas piston, springs, guides, plates, recoil spring, and channel of frame are free of lead deposits.

11. CARE AND CLEANING

A. Failure to feed - pistol jams or bolt closes on empty chamber.

Cause	Remedy
1. Magazine improperly seated	Push magazine home to engage catch.
2. Magazine improperly filled	Remove cartridges and refill.
3. Dirty magazine	Disassemble, clean and reassemble.
4. Damage	Replace.
5. Short recoil	Clear jam. Check chamber for cleanliness. Check if return spring is correctly assembled and free of lead deposits. Check type of ammunition (maybe underpowered).
6. Double feed	Inspect for stuck case or cartridge (see E).
7. Incorrect ammunition	Change ammunition.
8. Pistol jams shut	Release barrel lock; if barrel does not move forward from slide, call service department.

B. Failure to chamber - Bolt does not close fully and gun will not fire.

Cause	Remedy
1. Dirty Chamber	Clean.
2. Defective ammunition	Check for damaged cartridges.
3. Very dirty pistol	Check for sluggish bolt. Disassemble, clean, oil and reassemble.
4. Defective or dirty recoil spring	Field-strip, inspect, clean or replace if necessary.

C. Failure to fire - Hammer snaps home but gun will not fire.

Cause	Remedy
1. Defective cartridge	Inspect primer, if indented discard safely. If not indented, inspect firing pin for defects.
2. Obstructed firing pin.	Disassemble bolt from slide and inspect firing pin hold for obstructions.

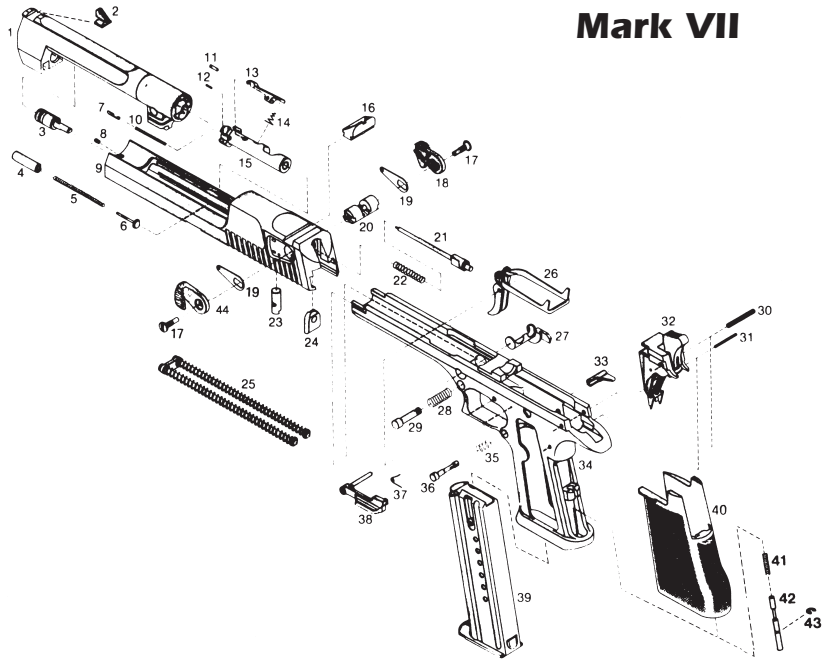
D. Failure to extract to eject - Pistol will not eject case or jams.

Cause	Remedy
1. Underpowered or defective	Inspect ammunition and change if necessary.
2. Dirty or damaged barrel chamber	Inspect, clean, replace barrel in necessary.
3. Fouled or broken extractor or extractor spring	Clean or replace extractor or extractor spring.
4. Fouled or broken ejector or ejector spring	Clean or replace ejector
5. Lead-fouled or broken return spring cross bar	Clean or replace. **Failure to do so can lead to a broken slide.**
6. Piston and gas cylinder or recoil spring channel in frame lead-fouled	Clean cylinder with tool reamer head. Clean piston and channel with wire brush.

E. Spent case stuck in chamber.

1. Field-strip.
2. Insert cleaning rod from muzzle end and tap gently to remove case.
3. If case cannot be removed, contact service department.

EXPLODED VIEW
Mark VII



DESERT EAGLE
.357 MAGNUM PISTOL

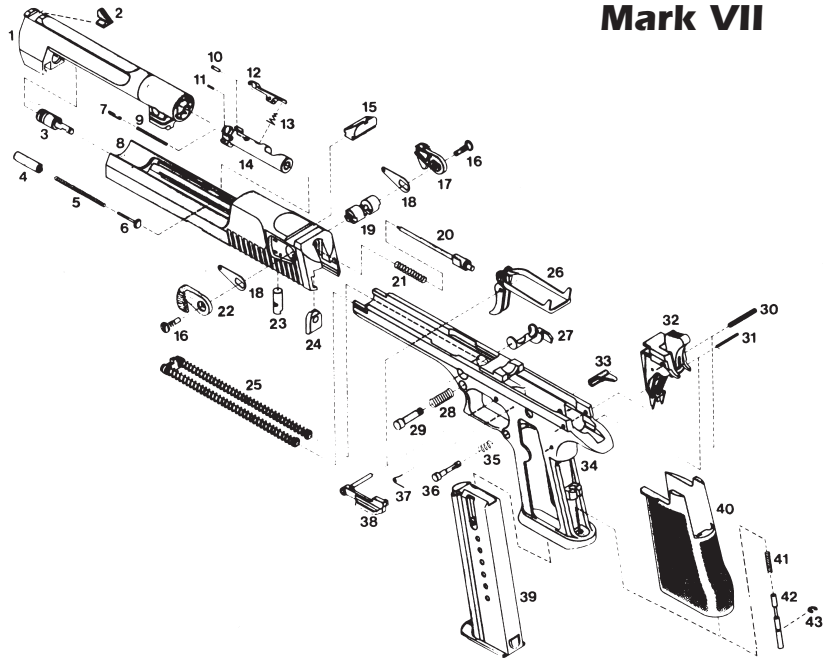
fig. 24

* See page 37 for breakdown

PARTS LIST
Desert Eagle .357 Magnum Pistol Mark I/VII/XIX

VIEW NO.	DESCRIPTION	PART NO.
1	Barrel 6" .357 - MK I/VII"	DEP406
1-A	Barrel 6" .357 - MK XIX"	BAR3576
2	Front Sight	00024-1101-5
3	Gas Piston - MK I/VII	00024-1214
3-A	Gas Piston - MK XIX	00025-0214
4	Bolt Stabilizer Pin	00024-1211
5	Bolt Stabilizer Spring	00024-1213
6	Bolt Stabilizer Guide Pin	00024-1212
7	Ejector - MK I/VII	00024-1253
7-A	Ejector - MK XIX	04011-0253
8	Gas Piston Pin - MK I/VII	00024-1215
9	Slide - MK I/VII	00024-1201
9-A	Slide - MK XIX	04007-0201
10	Ejector Spring - MK I/VII	00024-1252
10-A	Ejector Spring - MK XIX	00025-0252
11	Extractor Pin - MK I/VII	00024-1255
11-A	Extractor Pin - MK XIX	00025-0255
12	Ejector Pin - MK I/VII	00024-1254
12-A	Ejector Pin - MK XIX	00025-0254
13	Extractor - MK I/VII	00024-1261
13-A	Extractor - MK XIX	04011-0261
14	Extractor Spring	00024-1262
15	Bolt - MK I/VII	00024-1251
15-A	Bolt - MK XIX	04011-0251
16	Rear Sight	00024-1241
17	Safety Screw - MK I/VII	00024-1209
17-A	Safety Screw - MK XIX	04007-0209
18	Right Safety Lever - MK VII/XIX	04024-1207
19	Safety Spring	00024-1208
20	Safety - MK I/VII	00024-1206
20-A	Right Safety - MK XIX (Not Pictured)	04007-0216
20-B	Left Safety - MK XIX (Not Pictured)	04007-0206
21	Firing Pin	00024-1202
22	Firing Pin Spring	00024-1203
23	Bolt Guide Pin - MK I/VII	00024-1205
23-A	Bolt Guide Pin - MK XIX	00025-0205
24	Firing Pin Stop - MK I/VII	00024-1204
24-A	Firing Pin Stop - MK XIX	00025-0204
25*	Recoil Spring Assembly - MK I/VII	00024-1160
25-A*	Recoil Spring Assembly - MK XIX	00025-0160
26*	Trigger Assembly	00024-1340
27	Barrel Lock	00024-1302
28	Barrel Lock Spring	00024-1304
29	Barrel Lock Pin	00024-1303
30	Hammer Pin	00024-1312
31	Sear Pin	00024-1311
32*	Adjustable Trigger Assembly - MK VII/XIX	DEP200
33	Magazine Catch	00024-1307
34	Frame	N/A
35	Magazine Catch Spring	00024-1309
36	Magazine Catch Pin	00024-1308
37	Slide Catch Spring	00024-1313
38	Slide Catch Assembly - MK VII/XIX	04024-1330
39	Magazine Assembly	MAG357
40	IMI Grip	00024-1305
41	Grip Pin Spring	00024-1314
42	Grip Pin	00024-1320
43	Retaining Ring (C-CLIP) - MK I/VII	00024-1164
43-A	Retaining Ring (C-CLIP) - MK XIX	00025-0164
44	Left Safety Lever - MK VII/XIX	04024-1217

EXPLODED VIEW
Mark VII



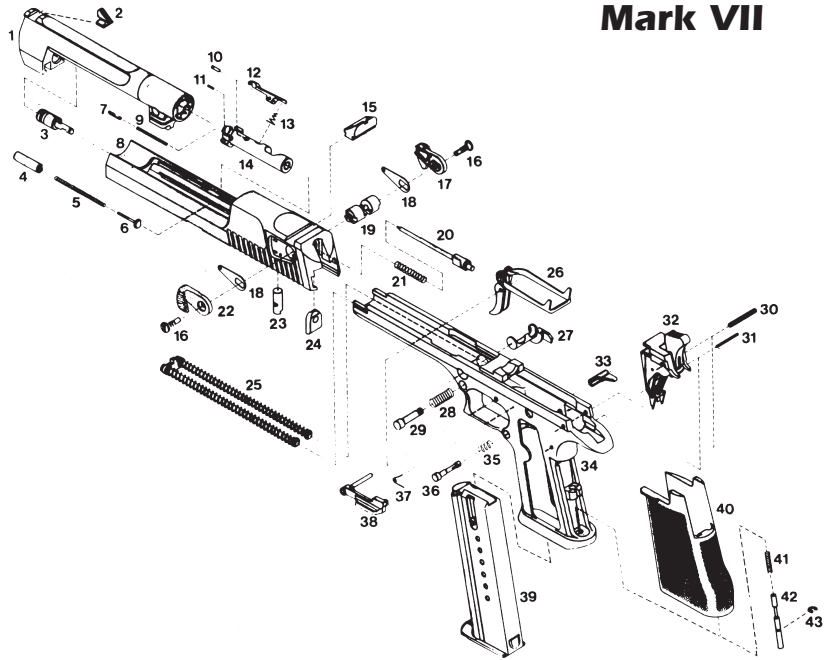
DESERT EAGLE
.41 MAGNUM PISTOL

PARTS LIST
Desert Eagle .41 Magnum Pistol, Mark VII

VIEW NO.	DESCRIPTION	PART NO.
1	Barrel 6" .41- MK I/VII	DEP606
2	Front Sight	00024-1101-5
3	Gas Piston	00025-0214
4	Bolt Stabilizer Pin	00024-1211
5	Bolt Stabilizer Spring	00024-1213
6	Bolt Stabilizer Guide Pin	00024-1212
7	Ejector	00025-0253
8	Slide	00025-0201
9	Ejector Spring	00025-0252
10	Extractor Pin	00025-0255
11	Ejector Pin	00025-0254
12	Extractor	00028-0261
13	Extractor Spring	00024-1262
14	Bolt	00028-0251
15	Rear Sight	00024-1241
16	Safety Screw	00024-1209
17	Right Safety Lever	04024-1207
18	Safety Spring	00024-1208
19	Safety	00025-0206
20	Firing Pin	00024-1202
21	Firing Pin Spring	00024-1203
22	Left Safety Lever	04024-1217
23	Bolt Guide Pin	00025-0205
24	Firing Pin Stop	00025-0204
25*	Recoil Spring Assembly	00025-0160
26*	Trigger Assembly	00024-1340
27	Barrel Lock	00024-1302
28	Barrel Lock Spring	00024-1304
29	Barrel Lock Pin	00024-1303
30	Hammer Pin	00024-1312
31	Sear Pin	00024-1311
32*	Adjustable Trigger Assembly - MK VII	DEP 200
33	Magazine Catch	00024-1307
34	Frame	N/A
35	Magazine Catch Spring	00024-1309
36	Magazine Catch Pin	00024-1308
37	Slide Catch Spring	00024-1313
38	Slide Catch Assembly	04024-1330
39	Magazine Assembly	DEP141BL
40	IMI Grip	00024-1305
41	Grip Pin Spring	00024-1314
42	Grip Pin	00024-1320
43	Retaining Ring (C-CLIP)	00025-0164

* See page 37 for breakdown

EXPLODED VIEW
Mark VII



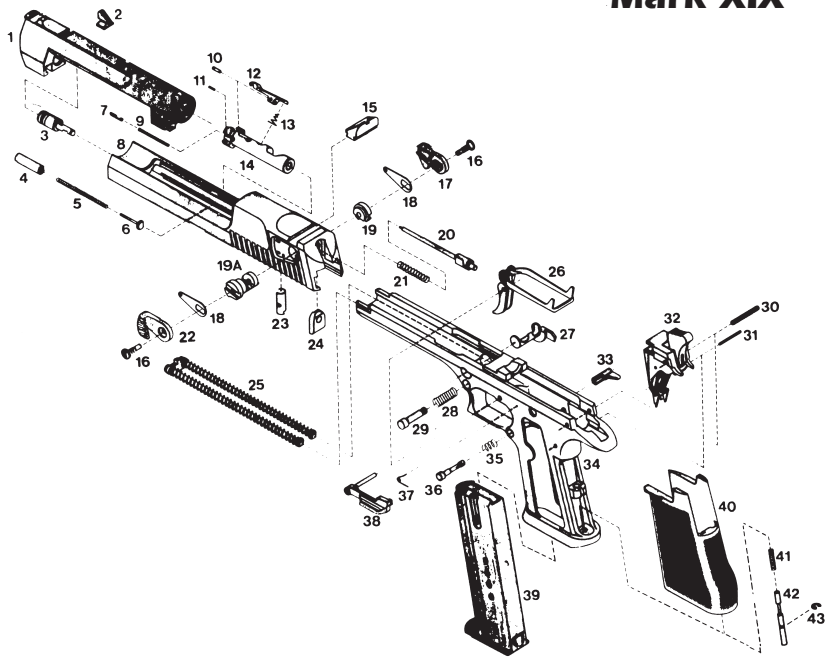
DESERT EAGLE
.44 MAGNUM PISTOL

PARTS LIST
Desert Eagle .44 Magnum Pistol, Mark I/VII/XIX

VIEW NO.	DESCRIPTION	PART. NO.
1	Barrel 6" .44 - MK VII	DEP506
1-A	Barrel 6" .44 - MK XIX	BAR446
2	Front Sight	00024-1101-5
3	Gas Piston	00025-0214
4	Bolt Stabilizer Pin	00024-1211
5	Bolt Stabilizer Spring	00024-1213
6	Bolt Stabilizer Guide Pin	00024-1212
7	Ejector	00025-0253
8	Slide - MK I/VII	00025-0201
8-A	Slide - MK XIX	04007-0201
9	Ejector Spring	00025-0252
10	Extractor Pin	00025-0255
11	Ejector Pin	00025-0254
12	Extractor	00025-0261
13	Extractor Spring	00024-1262
14	Bolt	00025-0251
15	Rear Sight	00024-1241
16	Safety Screw - MK I/VII	00024-1209
16-A	Safety Screw - MK XIX	04007-0209
17	Right Safety Lever	04024-1207
18	Safety Spring	00024-1208
19	Safety - MK I/VII	00025-0206
19-A	Left Safety - MK XIX (Not Pictured)	04007-0206
19-B	Right Safety - MK XIX (Not Pictured)	04007-0216
20	Firing Pin	00024-1202
21	Firing Pin Spring	00024-1203
22	Left Safety Lever	04024-1217
23	Bolt Guide Pin	00025-0205
24	Firing Pin Stop	00025-0204
25*	Recoil Spring Assembly	00025-0160
26*	Trigger Assembly	00024-1340
27	Barrel Lock	00024-1302
28	Barrel Lock Spring	00024-1304
29	Barrel Lock Pin	00024-1303
30	Hammer Pin	00024-1312
31	Sear Pin	00024-1311
32*	Adjustable Trigger Assembly - MK VI/XIX	DEP200
33	Magazine Catch	00024-1307
34	Frame	N/A
35	Magazine Catch Spring	00024-1309
36	Magazine Catch Pin	00024-1308
37	Slide Catch Spring	00024-1313
38	Slide Catch Assembly	04024-1330
39	Magazine Assembly	MAG44
40	IMI Grip	00024-1305
41	Grip Pin Spring	00024-1314
42	Grip Pin	00024-1320
43	Retaining Ring (C-CLIP)	00025-0164

* See page 37 for breakdown

EXPLODED VIEW
Mark XIX



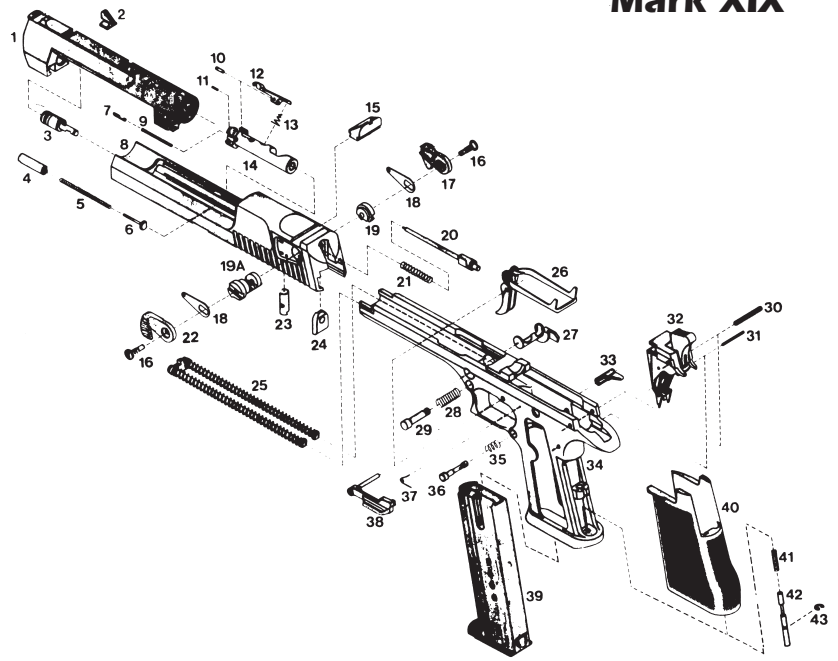
DESERT EAGLE
.440 Cor®Bon PISTOL

PARTS LIST
Desert Eagle .44O COR-BON Pistol, Mark XIX

VIEW NO.	DESCRIPTION	PART NO.
1	Barrel 6" .440 - MK XIX	BAR4406
2	Front Sight	00024-1101-5
3	Gas Piston	00025-0214
4	Bolt Stabilizer Pin	00024-1211
5	Bolt Stabilizer Spring	00024-1213
6	Bolt Stabilizer Guide Pin	00024-1212
7	Ejector	00025-0253
8	Slide	04007-0201
9	Ejector Spring	00025-0252
10	Extractor Pin	00025-0255
11	Ejector Pin	00025-0254
12	Extractor	00025-0261
13	Extractor Spring	00024-1262
14	Bolt	00025-0251
15	Rear Sight	00024-1241
16	Safety Screw	04007-0209
17	Right Safety Lever	04024-1207
18	Safety Spring	00024-1208
19	Right Safety	04007-0216
19-A	Left Safety	04007-0206
20	Firing Pin	00024-1202
21	Firing Pin Spring	00024-1203
22	Left Safety Lever	04024-1217
23	Bolt Guide Pin	00025-0205
24	Firing Pin Stop	00025-0204
25*	Recoil Spring Assembly	00025-0160
26*	Trigger Assembly	00024-1340
27	Barrel Lock	00024-1302
28	Barrel Lock Spring	00024-1304
29	Barrel Lock Pin	00024-1303
30	Hammer Pin	00024-1312
31	Sear Pin	00024-1311
32*	Adjustable Trigger Assembly	DEP200
33	Magazine Catch	00024-1307
34	Frame	N/A
35	Magazine Catch Spring	00024-1309
36	Magazine Catch Pin	00024-1308
37	Slide Catch Spring	00024-1313
38	Slide Catch Assembly	04024-1330
39	Magazine Assembly .50/.440	MAG50
40	IMI Grip	00024-1305
41	Grip Pin Spring	00024-1314
42	Grip Pin	00024-1320
43	Retaining Ring (C-CLIP)	00025-0164

* See page 37 for breakdown

EXPLODED VIEW
Mark XIX



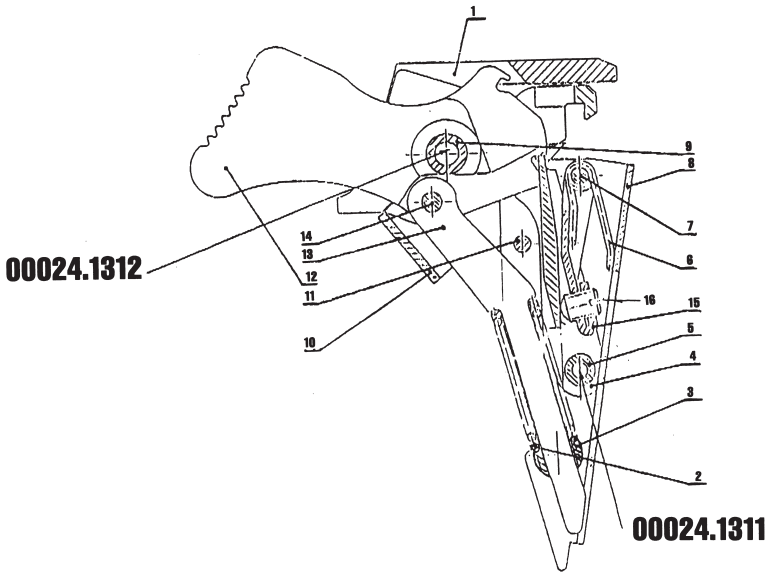
DESERT EAGLE
.50 AE PISTOL

PARTS LIST
Desert Eagle .50 AE Pistol, Mark XIX

VIEW NO	DESCRIPTION	PART NO.
1	Barrel 6" .50AE - MK XIX	BAR506
2	Front Sight	00024-1101-5
3	Gas Piston	00025-0214
4	Bolt Stabilizer Pin	00024-1211
5	Bolt Stabilizer Spring	00024-1213
6	Bolt Stabilizer Guide Pin	00024-1212
7	Ejector	00025-0253
8	Slide	04007-0201
9	Ejector Spring	00025-0252
10	Extractor Pin	00025-0255
11	Ejector Pin	00025-0254
12	Extractor	00025-0261
13	Extractor Spring	00024-1262
14	Bolt	00025-0251
15	Rear Sight	00024-1241
16	Safety Screw	04007-0209
17	Right Safety Lever	04024-1207
18	Safety Spring	00024-1208
19	Right Safety	04007-0216
19-A	Left Safety	04007-0206
20	Firing Pin	00024-1202
21	Firing Pin Spring	00024-1203
22	Left Safety Lever	04024-1217
23	Bolt Guide Pin	00025-0205
24	Firing Pin Stop	00025-0204
25*	Recoil Spring Assembly	00025-0160
26*	Trigger Assembly	00024-1340
27	Barrel Lock	00024-1302
28	Barrel Lock Spring	00024-1304
29	Barrel Lock Pin	00024-1303
30	Hammer Pin	00024-1312
31	Sear Pin	00024-1311
32*	Adjustable Trigger Assembly	DEP200
33	Magazine Catch	00024-1307
34	Frame	N/A
35	Magazine Catch Spring	00024-1309
36	Magazine Catch Pin	00024-1308
37	Slide Catch Spring	00024-1313
38	Slide Catch Assembly	04024-1330
39	Magazine Assembly	MAG50
40	IMI Grip	00024-1305
41	Grip Pin Spring	00024-1314
42	Grip Pin	00024-1320
43	Retaining Ring (C-CLIP)	00025-0164

* See page 37 for breakdown

EXPLODED VIEW



DESERT EAGLE ADJUSTABLE TRIGGER ASSEMBLY

PARTS LIST

Desert Eagle Adjustable Trigger Assembly

VIEW NO.	DESCRIPTION	PART NO.
32	ADJUSTABLE TRIGGER ASSEMBLY	DEP200
	- includes the following parts:	
1	Hammer Housing	00024-1351
2	Hammer Spring	00024-1352
3	Hammer Spring Retainer	00024-1353
4	Sear	00024-1354
5	Sear Insert	00024-1355
6	Sear Spring	00029-1856
7	Sear Pin	00024-1357
8	Mechanism Housing	00029-1861
9	Hammer Insert	00024-1362
10	Hammer Assembly Cover	00024-1363
11	Mechanism Housing Pin	00024-1364
12	Hammer	00024-1381
13	Hammer Bar	00024-1382
14	Hammer Bar Pin	00024-1383
15	Adjustable Spring Assembly	00029-1865
16	Set Screw	00029-1867

Desert Eagle Trigger Assembly

VIEW NO.	DESCRIPTION	PART NO.
26	TRIGGER ASSEMBLY	00024-1340
	- includes the following parts:	
	Trigger	00024-1341
	Trigger Pin	00024-1342
	Trigger Spring	00024-1343
	Trigger Bar	00024-1344

Desert Eagle Recoil Spring Assembly

VIEW NO.	DESCRIPTION	PART NO.
25	RECOIL SPRING ASSEMBLY - MK I/VII (.357)	00024-1160
	RECOIL SPRING ASSEMBLY - MK XIX (.357)	00025-0160
	- includes the following parts:	
	Recoil Spring Outer	00024-1161
	Recoil Spring Plate (Cross piece) - MK I/VII	00024-1162
	Recoil Spring Plate (Cross piece) - MK XIX	00025-0162
	Recoil Spring Rod - MK I/VII	00024-1163
	Recoil Spring Rod - MK XIX	00025-0163
	Retaining Ring (C-CLIP) - MK I/VII	00024-1164
	Retaining Ring (C-CLIP) - MK XIX	00025-0164
	Recoil Spring Inner - MK XIX (ONLY)	00025-0165
25	RECOIL SPRING ASSEMBLY (.41/.44/.440/.50)	00025-0160
	includes the following parts:	
	Recoil Spring Outer	00024-1161
	Recoil Spring Plate (Cross piece)	00025-0162
	Recoil Spring Rod	00025-0163
	Retaining Ring (C-CLIP)	00025-0164
	Recoil Spring Inner	00025-0165

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Tips for the Care and Cleaning of your Desert Eagle™ .357, .41, .44, .440 & .50 Pistols

Keep It Clean!

1. Be sure to prevent lead build-up in the cylinder and on the piston of your pistol's gas system. This includes the area on the front of the slide around the base of the piston. Use your cylinder lead reamer every time you clean (approximately 100-200 rounds).
2. Be sure to prevent lead build up on the end of the recoil springs. This includes the surfaces on the guide rods, on the crossplate, and on the frame itself in the area around the end of the recoil springs.
3. If you should experience trouble with feeding, check inside of the magazine for burrs around the viewing ports. File off any burrs.
4. If you should experience extraction problems after shooting a number of rounds, check the chamber for powder residue and brass particle build-up. Swab your barrel and chamber periodically. The exclusive quick barrel removal feature of the Desert Eagle Pistol makes it easier to clean the barrel.
5. Remember, all ammunition is not made equally! If you should experience consistent failure to feed, but the pistol works otherwise, change ammo brands.

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Revised 04/01

MRI reserves the right to change specifications.

Part No. — OM 357/41/44/50